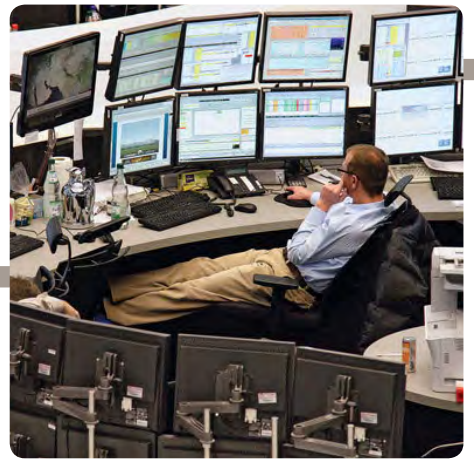
Common Criteria

VALIDATED
EAL 4+



THE BELKIN ADVANCED SECURE KM SWITCH

belkin BUSINESS

Your Essential Connection

THE CURRENT SITUATION

There are many cases where analysts and operators need to work simultaneously with multiple computers and different security levels.

COMMAND AND CONTROL

- Multiple Displays
- Multiple Keyboards
- Multiple Mice
- One User

BANKERS AND TRADERS

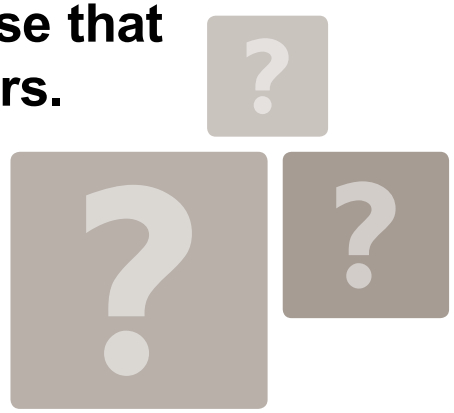
- Multiple Displays
- Multiple Keyboards
- Multiple Mice
- One User

DEFENSE AND INTELLIGENCE

- Multiple Displays
- Multiple Keyboards
- Multiple Mice
- One User

THE CHALLENGE

To provide users with a single keyboard and mouse that they can use to access multiple isolated computers.



Belkin Secure KM Switch (F1DN104K and F1DN108K)

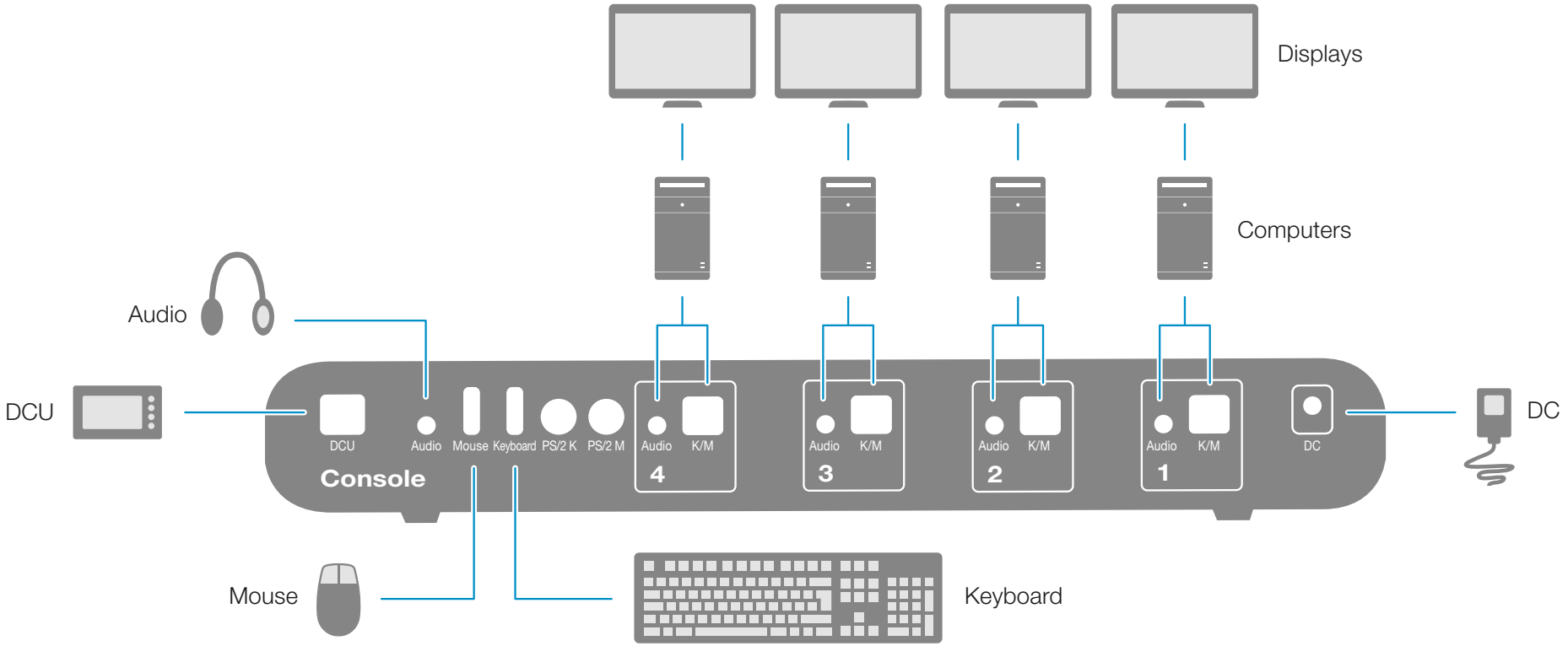
The Belkin Advanced Secure KM Switch makes it possible to use multiple secure systems on separate displays simultaneously with a single mouse and keyboard.

F1DN104K (4-Port) – Supports up to 16 monitors

F1DN108K (8-Port) – Supports up to 32 monitors

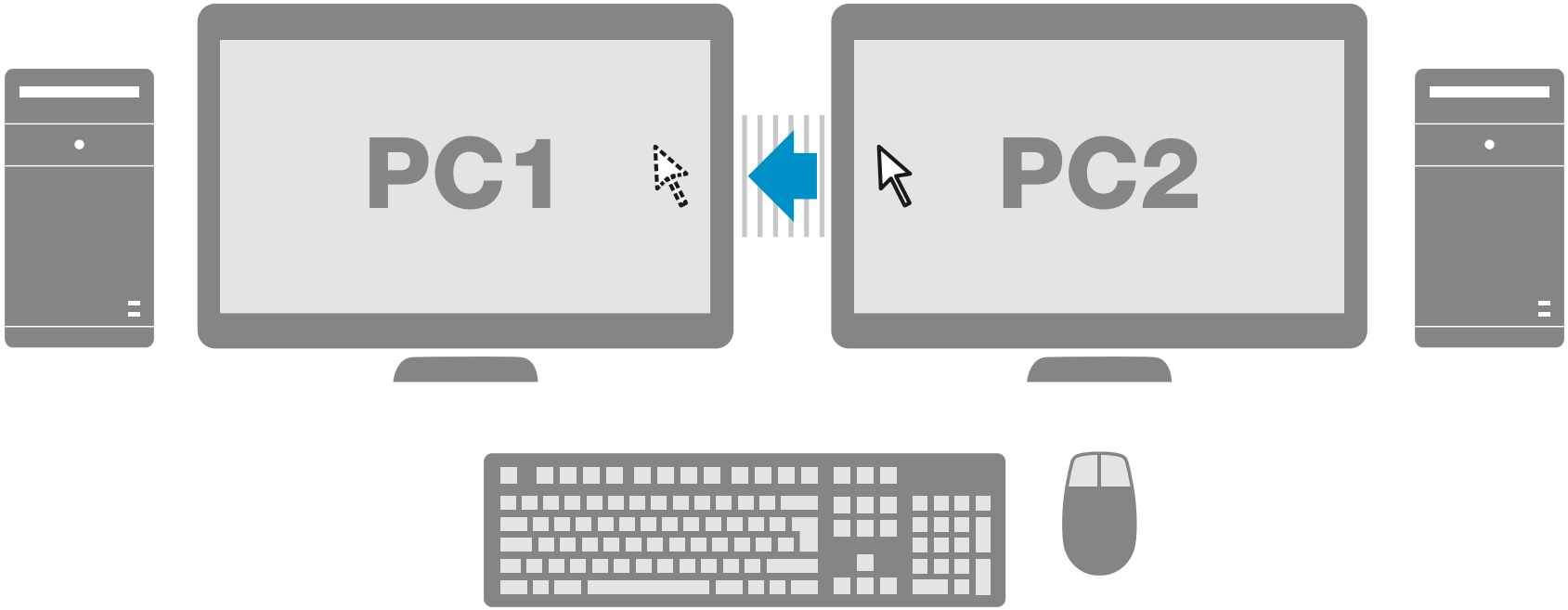
HOW DOES THE BELKIN SECURE KM WORK

- Each monitor is connected directly to the computer.
- Each computer is connected to the Switch ports marked “K/M”.
- The Keyboard and the Mouse are connected to the console section of the switch (USB or PS/2).
- User headphones or amplified speakers are connected to the audio output portmarked “Audio” on the Console section of the Switch.



WHY IS THE BELKIN SECURE KM THE PERFECT SOLUTION?

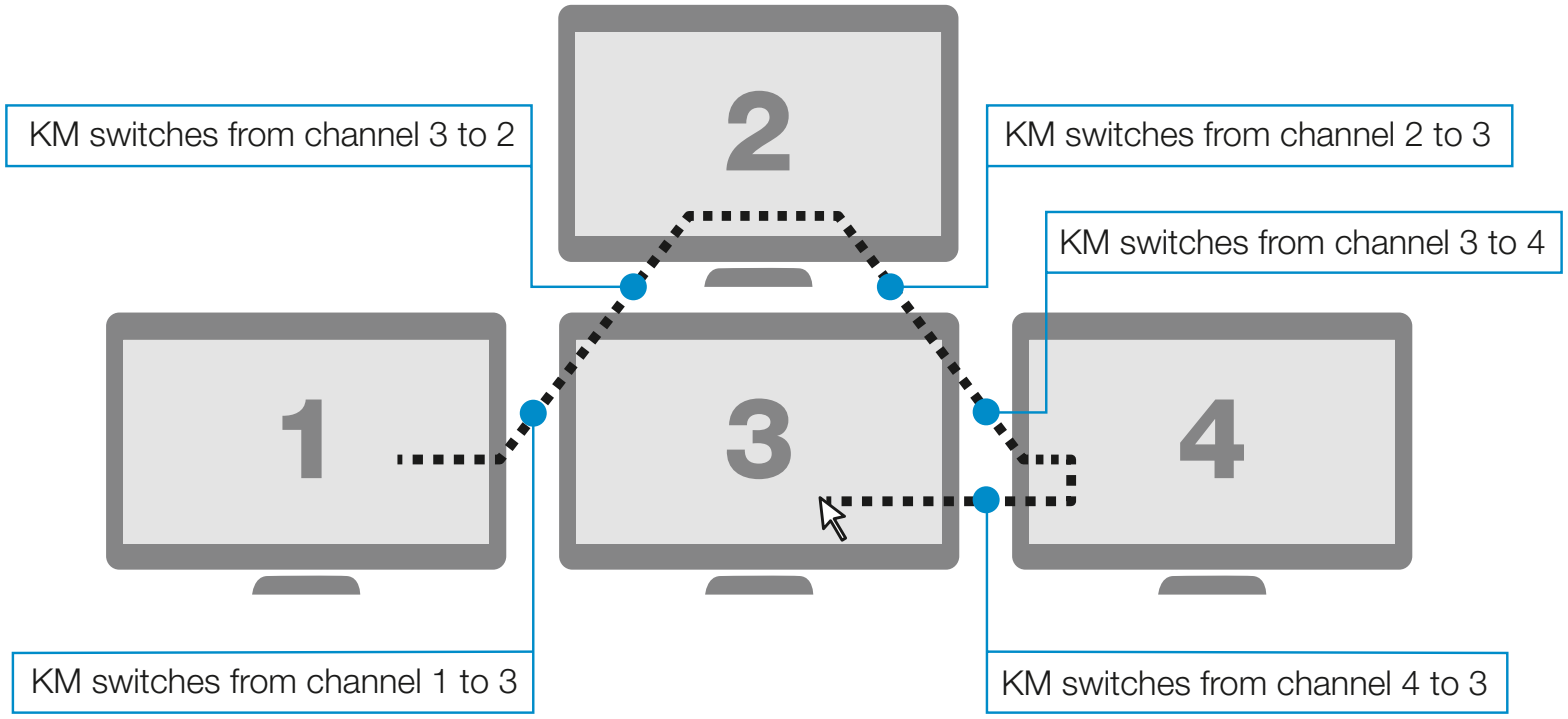
The Belkin Advanced Secure KM Switch is ideal for data-intensive applications where information from multiple secure sources must be viewed and compared on multiple displays in real time. Analysts and operators in defense and intelligence, banking and trading, or complex command and control environments will benefit immediately and immensely from seamless switching with cursor movement.



SEAMLESS CURSOR SWITCHING (SCS)

Seamless cursor switching allows the user to change automatically from one highly isolated computer system to another as the mouse cursor crosses display borders, without having to push any buttons.

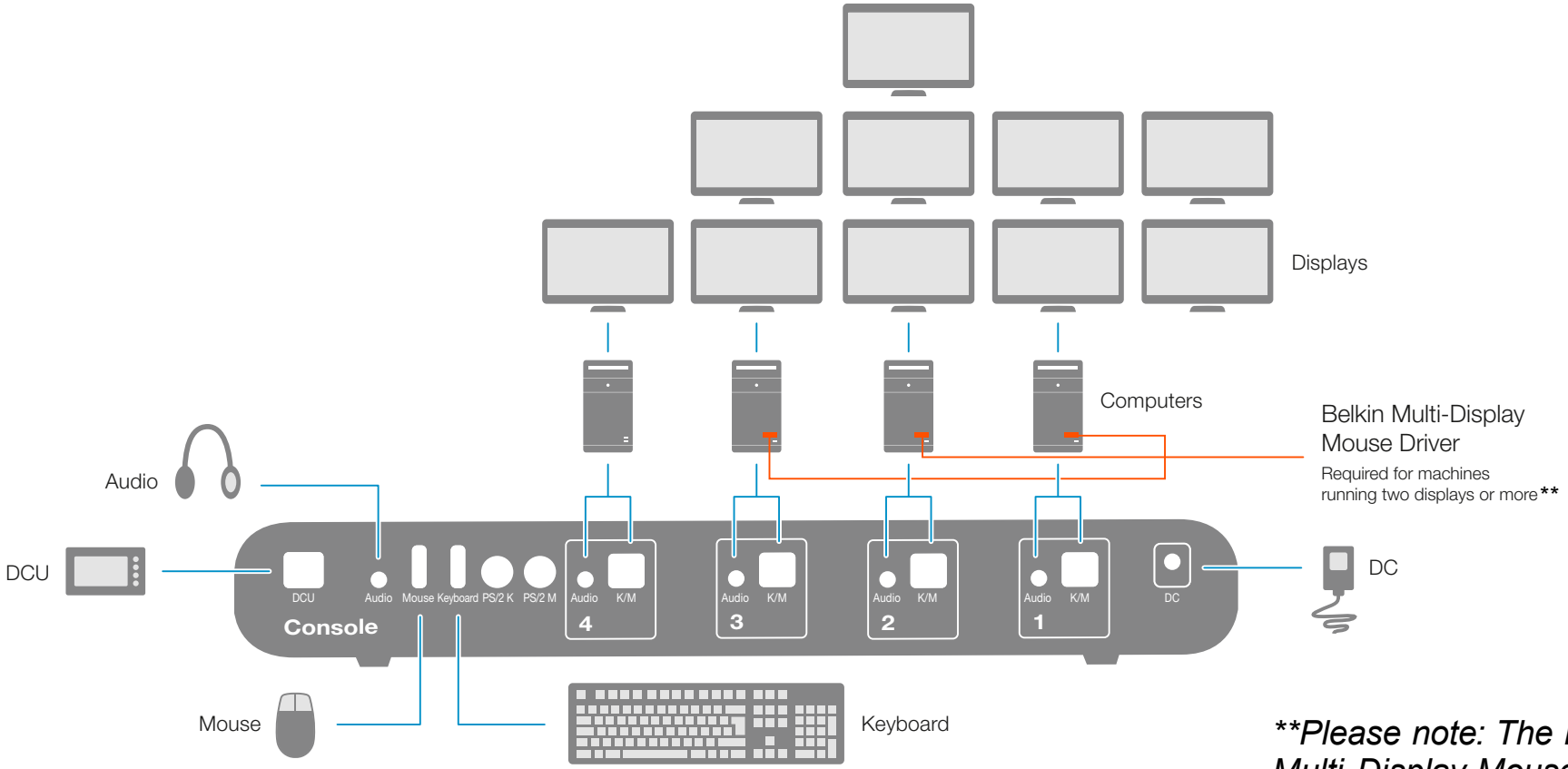
Audio and keyboard will “follow” the mouse from one computer to the next as the cursor moves from screen to screen.


KM switches from channel 3 to 2
2
KM switches from channel 2 to 3
KM switches from channel 3 to 4
1
3
4
KM switches from channel 1 to 3
KM switches from channel 4 to 3

MULTIPLE DISPLAYS PER CONNECTED COMPUTER

Multiply displays can be connected to each computer that is connected to the Belkin Secure KM.

The Belkin Secure KM is designed to have up to 8 computers connected and working simultaneously **in any possible monitor setup**.



F1DN104K model shown

Please note: The Belkin Multi-Display Mouse Driver is only available for Windows

KEY FEATURES AND BENEFITS…

- **Only product of its kind in the market**
  The Belkin Secure KM is a unique product that makes it possible to use multiple secure systems on separate displays simultaneously with a single mouse and keyboard.

- **Common Criteria validated to EAL 4+**
  The product is the only KM in the market that is listed by the Common Criteria organization. It is Common Criteria validated to EAL 4+ (Evaluation Assurance Level 4) to assure the highest level of protection.

- **Bloomberg Keyboard Support**
  The Belkin Secure KM supports the Bloomberg Keyboard.

- **8-port Capability**
  In addition to the standard 4-port model (F1DN104K), an 8-port model (F1DN108K) is also available.

KEY FEATURES AND BENEFITS…

- **Multiple Operating Systems Support**
  Windows, Linux, and Mac OS are all supported with no need for any software installation (a driver is required when multiple displays are connected to a single PC).

- **Multi-monitor flexibility**
  Windows, Linux, and Mac OS are all supported with no need for any software installation (a driver is required when multiple displays are connected to a single PC).

- **Desktop Controller Unit (DCU) Support**
  Desktop Controller Unit (DCU) Support - Allows you to connect an optional DCU (sold separately) device to control your KM or KVM Switch from 50 feet away, which reduces desktop clutter and increases work space.

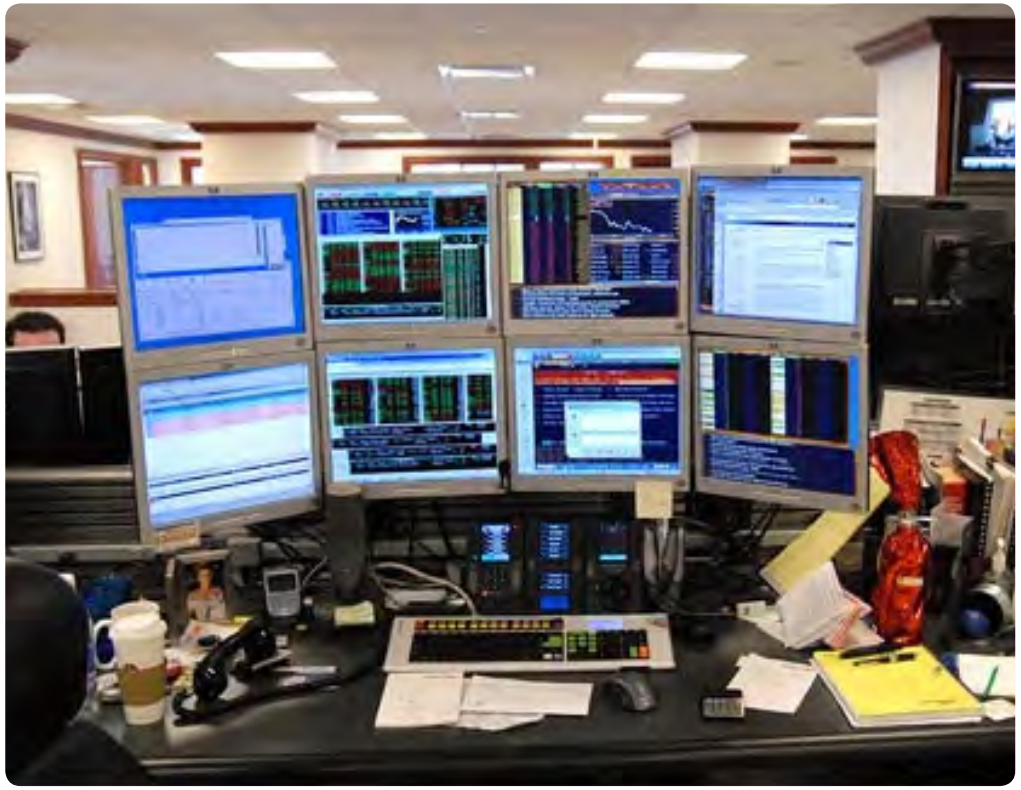
- **Increased Reliability**
  Using new, advanced anti-tampering battery with extremely low self discharge rate the life expectancy of the switch has been increased dramatically to over 15 years.

BLOOMBERG KEYBOARD SUPPORT

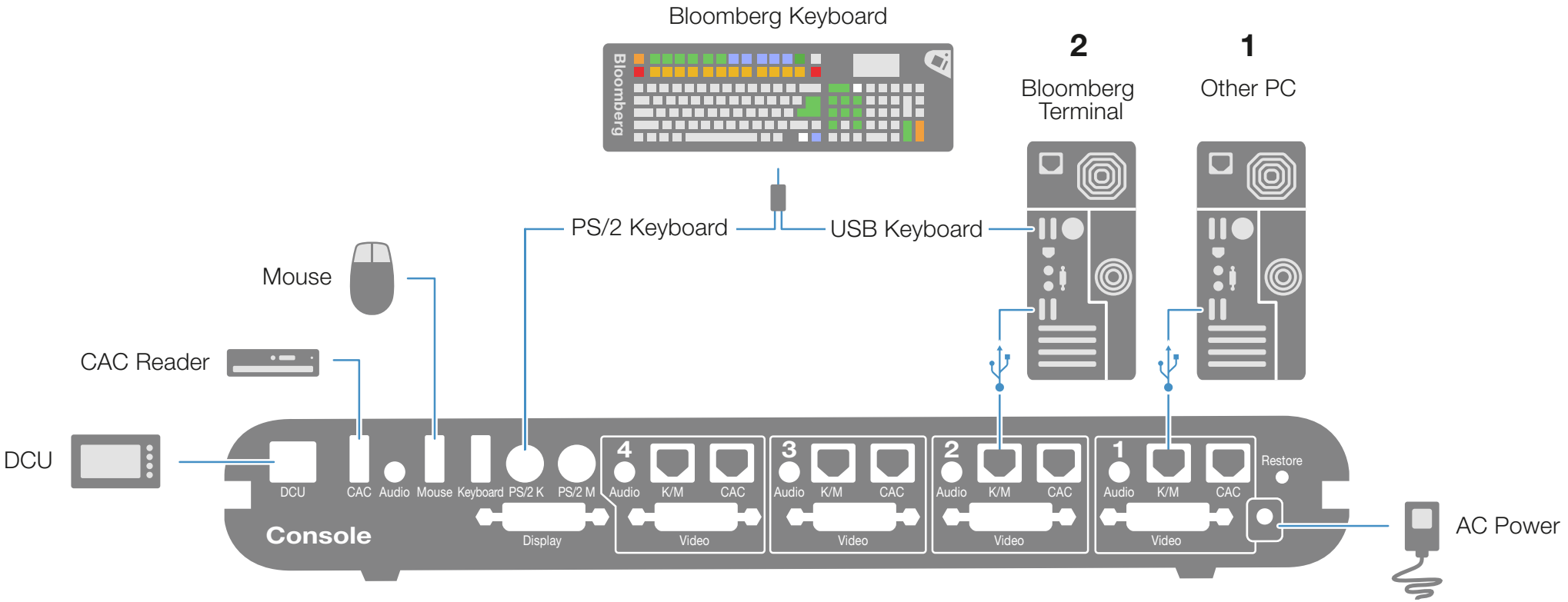
Belkin Secure KM supports the Bloomberg Keyboard.

When using the Belkin Secure KM in conjunction with the Bloomberg Keyboard;

- All keyboard functions are passed through the Belkin Secure KM and are shared between the different channels.
- Other functions - Audio, Bloomberg Secure Access Technology (BSAT) Device, LCD, and other special keys are connected only to the Bloomberg terminal.
- The Belkin Secure KM setup together with the Bloomberg keyboard prevents data leakages between the Bloomberg device and the connected computers.
- Switching is instantaneous (without re-enumeration).



BLOOMBERG KEYBOARD AND BELKIN SECURE KM SETUP



Belkin Secure KM and Bloomberg Keyboard Integration

BELKIN ADVANCED SECURE KM SWITCH

F1DN104K Rear Panel

1 DCU port
2 Console Audio Out jack
3 Console USB mouse port
4 Console USB keyboard port
5 Console PS/2 keyboard port
6 Console PS/2 mouse port
7 Computer audio port
8 Computer USB KM port
9 DC power input jack

F1DN108K Rear Panel

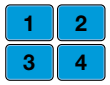
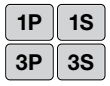
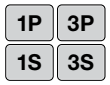
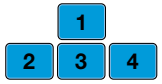
1 DCU port
2 Console Audio Out jack
3 Console USB mouse port
4 Console USB keyboard port
5 Computer audio port
6 Computer USB KM port
7 AC power input jack
8 AC power switch

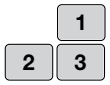
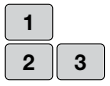
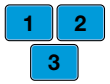
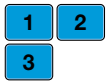
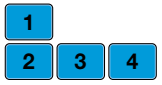
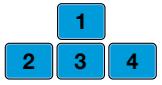
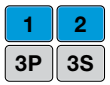
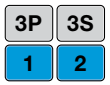
BELKIN SECURE DESKTOP CONTROLLER UNIT (DCU)

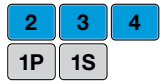
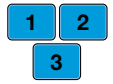
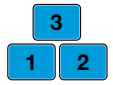
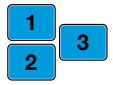
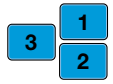
The Belkin Desktop Controller Unit (DCU) is a secure remote controller device used in conjunction with the Belkin Secure KM. The Belkin Secure DCU provides clear textual indications of the selected and connected channels and can be placed up to 120ft away from the Belkin Secure KM switch. The Belkin Secure DCU enhances security by preventing user errors and providing a total, physical separation between the KM and connected computers, from the user's desktop. The Belkin Secure DCU is connected to the DCU Port of the Belkin Secure KM.

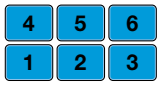
BELKIN SECURE KM PRESETS

Pre-Defined Configuration List - Using CTRL, CTRL, F11, Fx

F1	 (Factory Default)
F2	
F3	
F4	
F5	
F6	
F7	
F8	
F9	
F10	

F11 | 1 | 1	
F11 | 1 | 2	
F11 | 1 | 3	
F11 | 1 | 4	
F11 | 1 | 5	
F11 | 1 | 6	
F11 | 1 | 7	
F11 | 1 | 8	
F11 | 1 | 9	
F11 | 1 | 0	

F11 | 2 | 1	
F11 | 2 | 2	
F11 | 2 | 3	
F11 | 2 | 4	
F11 | 2 | 5	
F11 | 2 | 6	
F11 | 2 | 7	
F11 | 2 | 8	
F11 | 2 | 9	
F11 | 2 | 0	

F11 | 3 | 1	
F11 | 3 | 2	
F11 | 3 | 3 (8-Port Only)	
F11 | 3 | 4 (8-Port Only)	
F11 | 3 | 5 (8-Port Only)	
F11 | 3 | 6 (8-Port Only)	
F11 | 3 | 7 (8-Port Only)	
F11 | 3 | 8 (8-Port Only)	
F11 | 3 | 9 (8-Port Only)	
F11 | 3 | 0 (8-Port Only)	

FREQUENTLY ASKED QUESTIONS

- **What is the difference between a KM and a KVM?**

  KVM's are designed to switch displays, allowing the user to only see and manage one target device at a time. When using a KM switch, users can see all the connected computers, securely, at the same time. A KM switch is a device that switches a single keyboard and mouse between multiple computers. A KM switch is essentially a KVM switch without the video switching; all displays are continuously connected to their respective computers, so that all connected device can be managed seamlessly, in real time. To navigate from one computer to the next, simply move your mouse cursor from one monitor to the next.

- **Can a Secure KVM be used as a KM?**

  No, Secure KVMs are designed to switch video as well as mouse and keyboard at the push of a button. On a KM, the switching channel is done by just moving the mouse cursor from monitor to monitor.

- **When should a Belkin Secure KM Switch be used?**

  A KM switch should be used when one user needs to work simultaneously with multiple displays attached to multiple computers using a single keyboard and mouse. Multiply displays can be connected to each computer that is connected to the Belkin Secure KM. The Belkin Secure KM is designed to have up to 8 computers connected and working simultaneously in any possible monitor setup.

FREQUENTLY ASKED QUESTIONS

- ## Are Belkin KM Switches as secure as Belkin KVM Switches?

  The Belkin Secure KM Switch is a derivative of the award winning Belkin Secure KVM product line, and is equipped with the same high security features: Active Always-On Anti-Tampering, Heavy-Duty Tamper-Resistant Enclosure, Tamper Evident Label, Unidirectional Data Paths, Dedicated Processors for Emulation, USB Port Protection, Non- Reprogrammable Firmware, Tamper-Proof Hardware, and more.

- ## Do I need to install software drivers with the Belkin Secure KM?

  The Belkin Secure KM can be easily configured to support dual, triple, or quad head computers through a signed software driver. Single head installations, one monitor per computer, do not require any software installation. Customization of the KM monitor layout is to be done at the administrator level only, prior to a deployment to the end-users that will operate the device.

- ## Can I use a KM with multiple-display computers?

  Yes, The Belkin Secure KM can be easily configured to support dual, triple, or quad head monitors on up to eight computers. This allows the 4-Port Secure KM to support up to 16 monitors, and the 8-Port Secure KM to support up to 32 monitors.

FREQUENTLY ASKED QUESTIONS

- **What operating systems are supported by the Belkin Secure KM switch?**

  The Belkin Secure KM supports Windows, Linux and Mac operating systems. For configuring multiple-display computers and the KM monitor layout, only Windows is supported at the time of this writing (support for the other operating systems will be available in the future).

- **What keyboards are supported by the Belkin Secure KM?**

  USB Keyboard console port

  The Belkin Secure KM USB keyboard console port is compatible with the following types of devices:

  - Standard USB keyboard;
  - Standard USB mouse; and:
  - Bar-code readers emulating USB keyboard.

  PS/2 Keyboard console port (F1DN104K only) The Belkin Secure KM PS/2 keyboard console port is compatible with the following types of devices:

  - Standard PS/2 keyboard; and:
  - Bar-code readers emulating USB keyboard.

FREQUENTLY ASKED QUESTIONS

- **What mice are supported by the Belkin Secure KM?**

  USB Mouse console port

  The Belkin Secure KM USB mouse console port is compatible with the following types of devices:

  - Standard USB mouse (excluding USB hubs or other USB functions in composite device); or
  - Standard USB keyboard or Standard KVM Extender composite device with keyboard/mouse functions

- **Can a microphone be used with the Belkin Secure KM?**
  No, Microphone switching is not supported to prevent analog leakages through audio ports.

- **Can extension cables be used with the Belkin Secure KM?**
  Yes, any passive extension cable can be used to extend the distance between user and KM or the KM and the connected computers.

THANK YOU

For more information, please visit www.belkinbusiness.com

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